

Applicant: DLW Aktiengesellschaft

"Novel linoleum structure and process for its production"

Our reference: D 2713 – py / ae

### Claims

1. Process for producing a patterned flexible linoleum sheet material comprising the steps of
- dispersing at least one type of unicolored or multicolored mixed mass particles onto at least one side of a unicolored or multicolored rolled linoleum sheet and
  - substantially warp-free pressing of the mixed mass particles into the rolled linoleum sheet.
2. Process as claimed in Claim 1, wherein the rolled linoleum sheet equipped with dispersed and pressed-in mixed mass particles is cut, rotated 90°, stacked into a scale-like sheet stack and subsequently rolled into a pattern-providing sheet.
3. Process as claimed in Claim 1, wherein the rolled linoleum sheet equipped with dispersed and pressed-in mixed mass particles is processed directly as a pattern-providing sheet into a flexible linoleum material.
- 3.4 Process as claimed in any one of the preceding Claims wherein the particles are pressed into the linoleum sheet by means of a mangle or some other pressing tool.
- 4.5 Process as claimed in any one of the preceding Claims wherein a unicolored, marbled or speckled rolled linoleum sheet is used.
- 5.6 Process as claimed in any one of the preceding Claims wherein a composition of the mixed mass particles is used which contains a smaller proportion of linoleum cement than the rolled linoleum sheet.

- 6.7 Process as claimed in any one of the preceding Claims wherein the mixed mass particles are dispersed onto both sides of the rolled linoleum sheet.
- 7.8 Flexible linoleum sheet material comprising a top layer as matrix, which has at least one first color and at least one type of contrastingly colored particles, which are embedded in the matrix.
- 8.9 Flexible linoleum sheet material as claimed in Claim 7 wherein the top layer is unicolored, marbled or speckled.
- 9.10 Flexible linoleum sheet material as claimed in Claim 7 or 8 having particle types that are identical or different in size and/or color.
- 10.11 Flexible linoleum sheet material as claimed in any one of Claims 7 to 9, wherein the particles are embedded only in the topside of the top layer.
- 11.12 Flexible linoleum sheet material as claimed in any one of Claims 7 to 9, wherein the particles permeate the entire top layer.
- 12.13 Flexible linoleum sheet material as claimed in any one of Claims 7 to 9, wherein the particles are distributed across the entire thickness of the top layer.
- 13.14 Flexible linoleum sheet material as claimed in any one of Claims 7 to 12, wherein the particles are present in an amount of 10 g/m<sup>2</sup> to 500 g/m<sup>2</sup> in relation to the weight of the top layer.
15. Use of the flexible linoleum sheet material as claimed in any one of Claims 7 to 13 as a floor covering.

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A1  
A2